Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Modified Estimate For Improvements to Roads and Drains at ISSAC layout, Synika vihara layout and Vinayaka layout in ward no-02 of Yelahanka Sub division

Estimate Cost Rs. 95.00 Lakhs

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) (Page No 27., I.No.5.33 of KPWD S.R 2018-19).								
	Quoted Rate	125.49							
	Synika Vihar Layout Cross B	1	92.00	1.35		124.20			
						124.20	Sqm	125.49	15,585.86
2	Earthwork in execavation for foundation of structure like culverts, retaining wall etc., as per drawing and technical specification, including setting out, construction of shoring and bracing, dressing of sides and bottom, back filling with approved material, disposal of balance earth as per specification, including cost of labour, HOM etc., complete. In all kinds of soil by manual means. (P.No.256, I.No.34.15.1 of PW,P&IWTD S.R 2018-19)								
	Quoted Rate	308.26							
	Drain desilt								
	Synika Vihar Layout Cross B	1	280.40	0.50	0.40	56.08			
	For flagging course	2	280.40	0.25	0.20	28.04			
	For Drain								
	Synika Vihar Layout	1	140.00	1.05	1.00	147.00			
	Harohalli 7th cross	1	625.50	1.05	1.00	656.78			
	Balaji Layout	1	60.00	1.05	1.00	63.00			
	Culvert								
		1	7.80	1.80	1.00	14.04			
		1	7.80	1.80	1.00	14.04			
		1	3.90	1.80	0.90	6.32			
						985.29	Cum	308.26	303726.42
3	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	Quoted Rate	6480.10							
	For Flagging Course P.C.C								
	Synika Vihar Layout Cross B	2	280.40	0.15	0.100	8.41			
	For Flagging Course Coping								
	Synika Vihar Layout Cross B	2	280.40	0.15	0.075	6.31			
						14.72	Cum	6480.10	95,393.55
4	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4. (P.No-27,I No-5.27.2)								
	Quoted Rate	1139.98							
	For Flagging Course Coping								

	Synika Vihar Layout Cross B	2	280.40		0.20	112.16			
						112.16	**Sqm**	**1139.98**	**127860.16**
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.(7.5cms thick)(I No-5.31.1,P No-27)								
	Quoted Rate	**836.61**							
	Drain Slab								
	missing/damaged								
						88.00			
						88.00	**Sqm**	**836.61**	**73,621.68**
6	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications, MORTH specifications No. 408, (P.No.13, I.No.4-1.2 of PW,P&IWTD S.R 2018-19)								
	Quoted Rate	**6207.61**							
	For Drain								
	Synika Vihar Layout	1	140.00	1.05	0.15	22.05			
	Harohalli 7th cross	1	625.50	1.05	0.15	98.52			
	Balaji Layout	1	60.00	1.05	0.15	9.45			
	Culvert								
		1	7.80	1.80	0.20	2.81			
		1	7.80	1.80	0.20	2.81			
		1	3.90	1.80	0.20	1.40			
						137.04	**Cum**	**6207.61**	**850667.60**
7	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (P.No.14, I.No.4.11 of PW, P&IWTD S.R 2018-19)								
	Quoted Rate	**6763.35**							
	For Drain								
	Raft								
	Synika Vihar Layout	1	140.00	0.90	0.15	18.90			
	Harohalli 7th cross	1	625.50	0.90	0.15	84.44			
	Balaji Layout	1	60.00	0.90	0.15	8.10			
	Culvert								
		1	7.80	1.50	0.20	2.34			
		1	7.80	1.50	0.20	2.34			
		1	3.90	1.50	0.20	1.17			
	Wall								
	Synika Vihar Layout	2	140.00	0.15	0.60	25.20			
	Harohalli 7th cross	2	625.50	0.15	0.60	112.59			
	Balaji Layout	2	60.00	0.15	0.60	10.80			
	Culvert								
		2	7.80	0.20	0.65	2.03			
		2	7.80	0.20	0.65	2.03			
		2	3.90	0.20	0.65	1.01			
						270.95	**Cum**	**6763.35**	**1832546.59**

8	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (I No-4.31,P No-15)								
	Quoted Rate	**427.86**							
	For Drain								
	Wall								
	Synika Vihar Layout	4	140.00	0.15	0.60	336.00			
	Harohalli 7th cross	4	625.50	0.15	0.60	1501.20			
	Balaji Layout	4	60.00	0.15	0.60	144.00			
	Culvert								
		4	7.80	0.20	0.65	20.28			
		4	7.80	0.20	0.65	20.28			
		4	3.90	0.20	0.65	10.14			
						2031.90	**Sqm**	**427.86**	**869368.73**
9	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Quoted Rate	**83426.25**							
	For Drain								
	65Kg/Cum of Concrete		270.95	65.00		17.61			
						17.61	**Tn**	**83426.25**	**1469295.82**
10	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Quoted Rate	**2634.97**							
	For flagging course	1	280.40	0.90		252.36			
	For Drain								
	Synika Vihar Layout	1	140.00	0.90		126.00			
	Harohalli 7th cross	1	625.50	0.90		562.95			
	Balaji Layout	1	60.00	0.90		54.00			
						995.31	**Sqm**	**2634.97**	**2622611.99**
11	KSRRB M300-14. **Excavation for roadwork** in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 (Page No143., I.No.19.14 of KPWD S.R 2018-19).								
	Quoted Rate	**77.47**							
	Synika Vihar Layout Cross A	2	138.30	1.00	0.25	69.15			
	Kamakshamma Layout								
	Cr-6	1	28.20	1.90	0.25	13.40			
	Cr-7	1	49.20	2.00	0.25	24.60			
						107.15	**Cum**	**77.47**	**8,300.52**

	Quoted Rate	**14.34**							
	For BC								
	Synika Vihar Layout Cross A	1	138.30	6.10		843.63			
	Kamakshamma Layout								
	Cr-6	1	28.20	4.30		121.26			
	Cr-7	1	49.20	4.20		206.64			
						1171.53	**Sqm**	**14.34**	**16,799.74**
17	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. - do - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen (P.No.162 Item No.21.22.6) KPWD SR 2018-19								
	Quoted Rate	**8920.60**							
	For BC								
	Synika Vihar Layout Cross A	1	138.30	6.10	0.04	33.75			
	Kamakshamma Layout								
	Cr-6	1	28.20	4.30	0.04	4.85			
	Cr-7	1	49.20	4.20	0.04	8.27			
						46.86	**Cum**	**8920.60**	**418030.02**
18	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (P.No.182 & I.No.24.15) KPWD SR 2018-19								
	Quoted Rate	**658.56**							
	Synika Vihar Layout Cross A	2.5	138.30	0.10		34.58			
	Kamakshamma Layout								
	Cr-6	2	28.20	0.10		5.64			
	Cr-7	2	49.20	0.10		9.84			
						50.06	**Sqm**	**658.56**	**32,964.22**
E1	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge								
	Basic Rate	**5418.00**							
	12.75% TP	**690.80**							
	Quoted Rate	**6108.80**							
	Culvert								
		1	7.80	1.80		14.04			
		1	7.80	1.80		14.04			
		1	3.90	1.80		7.02			
						35.10	**Sqm**	**6108.80**	**214418.70**
								Total Construction Cost	**9469246.04**

Technical Sanction
Accorded For ...../.....
Head of A/C..... 2-77/19-20
CER NO :..... Dt:..22/3/19

TA to CE (YNK)

Assistant Engineer
Ward No-02
BBMP Bangalore

Asst. Executive Engineer
Yelahanka Sub Division
BBMP Bangalore

Asst. Executive Engineer
Yelahanka Sub. Division
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Yelahanka, Bangalore

Executive Engineer
Yelahanka Division
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